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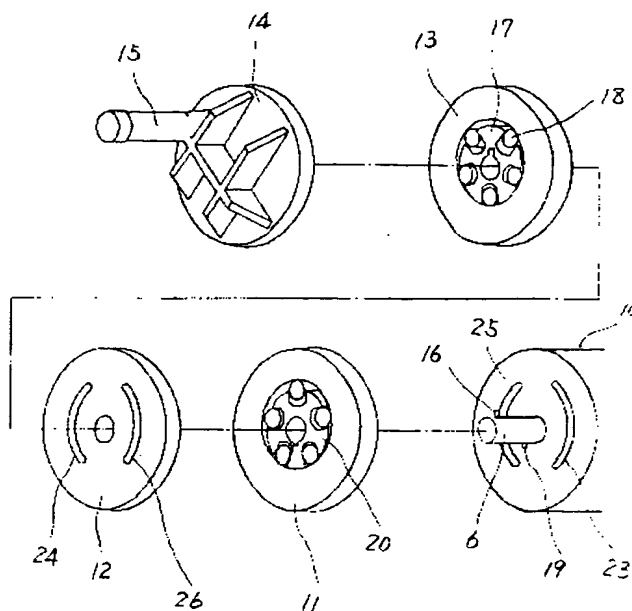
APPLICATION DATE : 11-08-82
APPLICATION NUMBER : 57138599

APPLICANT : HITACHI LTD;

INVENTOR : TERUMOTO SUSUMU;

INT.CL. : F04C 2/30 F04C 2/344

TITLE : VOLUME TYPE PUMP



ABSTRACT : PURPOSE: To enable pulsation of discharge pressure of both pumps to be reduced by coupling two pumps with a rotary shaft of one motor and varying the phases of these first and second rotors of the pumps to couple them with the rotary shaft.

CONSTITUTION: Two sets of intake portions of pumps interconnected by a rotary shaft 6 of one motor (not shown) communicate to each other through a communicating hole 24 provided in a middle plate 12. And an intake port 15 provided in a cover 14 is shaped same as a relief hole 25 provided in a pump base body 10 so that the intake timing of a second rotor 20 equals the intake timing of a first rotor 17. Also, two sets of discharge portions of pumps communicate to each other through a communicating hole 26 provided in a middle plate 12. The first and second rotors 17, 20 are coupled with a rotary shaft 6 through pins 16, 19 with the relative angular displacement of 180° to each other. Thus, the pulsation of discharge pressure of both pumps can be offset and remarkably reduced.

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